Amendments to the Claims:

1.   (currently amended) A method for routing packets in a router having a

plurality of router interfaces through which the packets are received from

a plurality of address domains, the method comprising:

        dedicating a separate routing table in the router to each address

domain of the plurality of address domains;

        associating each router interface with one of the routing tables;

~~and~~

        executing a single IP stack to receive a packet from any of the

router interfaces and to identify the associated routing table in the router

for handling the received packet <u>and,</u>

        <u>in the event of a route change received from more than one of the</u>

<u>plurality of address domains, updating each routing table associated</u>

<u>with each address domain for which a route change has been received</u>

<u>via the single IP stack.</u>

2.   (canceled)

3.   (previously presented) The method of claim 1, wherein a mapping array

associates interfaces connecting to the same address domain with the

same routing table.

4.   (previously presented) The method of claim 1, wherein executing a single

      IP stack forwards a received packet according to the identified routing

      table when the received packet is a data packet and updates the

      identified routing table when the received packet is a control packet.

5.   (canceled)

6.   (original) The method of claim 1 wherein each of the plurality of address

      domains represents a virtual private network.

7.   (currently amended) A router comprising:

      a plurality of router interfaces through which packets from a plurality of address domains are received;

      a separate routing table in the router associated with each address domain; and

      a domain manager executing a single IP stack to receive a packet from any of the router interfaces and to identify an appropriate associated routing table in the router for handling the received packet. <u>the domain manager functional in the event of a route change received from more than one of the plurality of address domains to update each routing table associated with each address domain for which a route change has been received via the single IP stack.</u>

8.   (canceled)

9.   (previously presented) The router of claim 7, wherein the domain manager comprises a mapping array that associates each interface to a routing table.

10.   (previously presented) The router of claim 7, wherein the domain manager executing the single stack forwards a received packet according to the identified routing table when the received packet is a data packet

and updates the identified routing table when the received packet is a

control packet.

11.   (canceled)

12.   (original) The router of claim 7 wherein each of the plurality of address

domains represents a virtual private network.

13.- 20. (canceled).